

REMARKS/ARGUMENTS

In the **Specification**, the paragraph [0001] has been replaced with amended paragraph: [0001.1]

In the **Specification**, the paragraphs [0002], [0003], [0004], [0005], [0006], [0007], [0008] have been replaced with amended paragraph: [0002.1]

In the **Specification**, the paragraphs [0009], [0010], [0011], [0012] have been replaced with amended paragraph: [0003.1]

In the **Specification**, the paragraphs [0013], [0014], [0015], [0016], [0017], [0018], [0018], [0019], [0020] have been replaced with amended paragraph: [0004.1]

In the **Specification**, the paragraphs [0021], [0022], [0023], [0024], [0025], [0026] have been replaced with amended paragraph: [0005.1]

In the **Specification**, the paragraph [0027] has been replaced with amended paragraph: [0006.1]

In the **Specification**, the paragraphs [0028], [0029], [0030], [0031], [0032], [0033], [0034], [0035] have been replaced with amended paragraph: [0007.1]

In the **Specification**, the paragraph [0036] has been replaced with amended paragraph: [0008.1]

Claim (1) (withdrawn)

Claim (2) (withdrawn)

Claim (3) (currently amended)

Claim (4) (withdrawn)

Claim (5) (canceled)

Claim (6) (currently amended)

Clean Specification Sheets, each section of the amended document began on separate sheet to facilitate scanning and indexing.

Applicant respectfully advise that your communication, dated 01.31.2007, did not include the following documents.

- Continuation of 1(c) Other: a marked-up substitute specification showing the changes... Amendment to the Specification in the Revised Amendment Practice.
- Continuation of 4(e) Other: Amendments to the Claim in the Revised Amendment Practice.

You mentioned in your letter that those documents were attached, in order to direct in complying with the latest modification to the Amendment Practice.

Applicant respectfully request the application to be "Made Special" under the following circumstances:

1. I am over 70 years old
2. I am in poor health condition and time is an essential factor to be able to assist in the prosecution of this application
3. This invention will materially enhance the quality of the environment.
4. Also will materially contribute to the development or conservation of energy resources

APPL. NO. 10/708,966
Amdt.dated February 22, 2007
CUSTOMER NUMBER: 38044
Reply to Office action of 01.31.2007

[0001.1] THE FIELD OF INVENTION

The present invention relates generally to the field of toilets, and particularly with respect to those devices used as ventilation systems for toilets.

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[0002.1] DESCRIPTION OF RELATED ART

Many toilet ventilation systems exist, but none of them disclose a toilet tank device that extracts odor primarily from the toilet bowl, thus eliminating any odor exposure in the room and to the user. Scott III U.S.Pat.No.5,930,844 teaches a drain pipe communicating between tank and a bowl and air flow control arrangement including resistance to water flow into the air ventilation duct. Curiel U.S.Pat.No.5,839,127 show an odor extractor device connected to the overflow tub of the toilet assembly. A flexible sheet maximizes the suction. Eager U.S.Pat.No.5,305,472 connects the water passageway of the toilet assembly with an extractor device to extract the odors from the toilet bowl. Unfortunately those inventions need significantly modifications or adaptations to the toilet plumbing system, require plumbing code approval and may not be economically incorporated into existing conventional toilets or new building constructions.

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[0003.1] SUMMARY OF INVENTION

It is one of the main objects of the present invention to provide a device that extracts odor primarily from the toilet bowl, and before it is released in the room, thus increasing the efficiency of the toilet ventilation system.

It is another object of this invention to provide a toilet tank with an air passageway that is connected to the existing surrounding ducts, and that is easily adaptable to existing toilet systems, as well as ones manufactured in new buildings.

It is yet another object of this invention to provide a toilet tank device that is cost effective, easy to manufacture, silent, efficient, complying with the plumbing and mechanical codes, and that increases interior air quality in houses and buildings.

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[0004.1] ADVANTAGE OVER RELATED ART

The primary advantage and benefit of said invention is that the device does not interfere with the existing plumbing or ventilation system and thus does not require approval for the plumbing or mechanical code. Additionally, the device is cost effective, easy to install in conventional toilets, is triggered automatically with the bathroom's electrical lighting system, is silent, saves energy and increases air quality in the room.

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[0005.1] BRIEF DESCRIPTION OF THE DRAWINGS

With the above objectives in view, the invention is depicted in the accompanying drawings which are as follows:

Fig.1 Three dimensional view of the "CATS-TANK" and toilet bowl;

Fig.2 Plan view along the line A-A Fig.3, 4 and 5;

Fig.3 Front view;

Fig.4 Sectional view along the line B-B Fig.2;

Fig.5 Back view;

Fig.6 Three dimensional view of the "CATS-TANK" equipped with the ventilation system;

Fig. 7 Air flow schematic of the ventilation system.

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[0006.1] PARTS LIST

| Part No | Description |
|---------|-------------------------------|
| 1 | Air grille and filter |
| 2 | Air passageway |
| 3 | Toilet tank |
| 4 | Back opening |
| 5 | Tank lid |
| 6 | Tight air insulation |
| 7 | Toilet seat |
| 8 | Toilet bowl |
| 9 | Air Duct |
| 10 | Water drain |
| 11 | Cold water supply |
| 12 | Wall |
| 13 | Air extractor |
| 14 | Ceiling grille |
| 15 | Air flow direction |
| 16 | Electrical conduit and switch |
| 17 | Toilet rim |
| 18 | Ceiling line |
| 19 | Odor air flow direction |
| 20 | Conventional toilet |
| 21 | Exterior |

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[0007.1] DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the drawings for better understanding of the invention,* it will be appreciated that the present invention can be utilized with conventional toilets 20. Those toilets include an air extractor 13, an electrical conduit with switch 16, a toilet bowl 8, a toilet rim 17, a toilet seat 7, a cold water supply 11, a water drain 10, the toilet tank 3 with lid 5, having back openings 4, an air passageway 2, an air and grille filter 1, an air duct 9, connecting openings 4 of the toilet tank 3, an air extractor 13, the electrical conduit and switch 16 that triggers the air extractor 13. The air odor typically present in and around the toilet bowl 8 are extracted through the air grille and filter 1 using the passageway 2, opening 4, surrounding ducts 9 and are released to exterior 21. Between toilet rim 17 and the toilet seat 7 an air tight insulation 6 is attached to increase the efficiency of air suction. The ventilation system will work until the electrical switch 16 will be turned off. The above description conveys the best understanding of the objectives and advantages of the present invention. Different embodiments of the ventilation system may be made. It is to be understood that all matters disclosed herein are to be interpreted merely as illustrative and not in a limiting sense. The following table lists the part numbers and part descriptions, as used herein and in the drawing attached hereto:

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[0008.1] ABSTRACT OF DISCLOSURE

The improvement for toilet ventilation system exemplified herein is an odor extractor connected to the surrounding ducts in the toilet tank having back openings connected to an air passageway, an air grille and filter, the air being extracted primarily from the toilet bowl and tight air insulation being applied between toilet rim and toilet seat thus increasing the efficiency of odor suction.